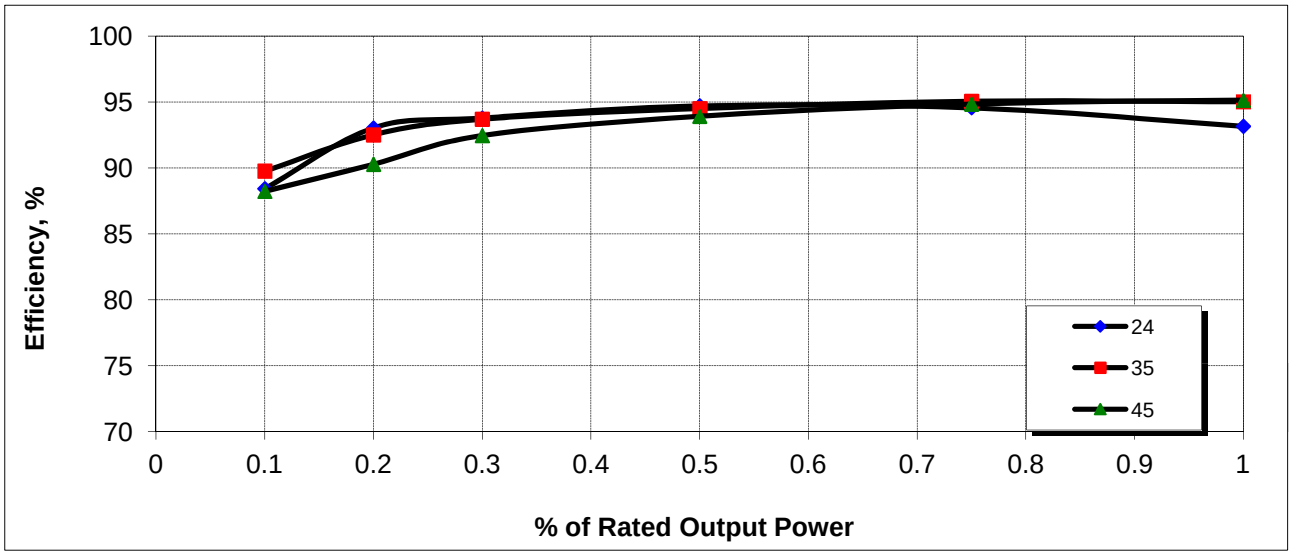
Manufacturer: Altenergy Power System Inc.
Model #: YC250I

Rated Maximum Continuous Output Power: 225.00 W Night Tare Loss: -0.15 W

Vmin: 24 Vdc Vnom: 35 Vdc Vmax: 45 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		22.50	45.00	67.50	112.50	168.75	225.00	Wtd
Vmin	24	88.4	93.0	93.8	94.7	94.6	93.2	94.1
Vnom	35	89.8	92.5	93.7	94.5	95.1	95.0	94.4
Vmax	45	88.2	90.3	92.5	93.9	94.8	95.1	93.9

CEC Efficiency = 94.0%



Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
% of rated	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	20.8021	24.5164	88.545	20.7981	24.4755	88.480	20.8019	24.4609	88.364	20.7966	24.4771	88.302	20.7949	24.4596	88.480
20%	Vmin	44.5765	24.3713	93.029	44.5903	24.3263	93.059	44.5815	24.2676	93.041	44.5877	24.2968	93.054	44.5819	24.2527	93.043
30%	Vmin	67.2961	24.4648	93.805	67.2924	24.4657	93.799	67.2876	24.4666	93.792	67.2809	24.4667	93.783	67.2941	24.4679	93.801
50%	Vmin	113.409	24.1847	94.705	113.41	24.1845	94.706	113.416	24.1842	94.712	113.412	24.1843	94.709	113.42	24.1836	94.716
75%	Vmin	171.69	24.1041	94.593	171.943	24.1029	94.564	171.941	24.1022	94.563	171.928	24.1021	94.555	171.942	24.1019	94.563
100%	Vmin	222.997	24.1637	93.165	223.004	24.1643	93.167	223.007	24.1646	93.169	223.012	24.1651	93.170	223.005	24.1653	93.170
10%	Vnom	20.4033	35.6238	89.844	20.4482	35.6046	89.065	20.3865	35.6416	89.933	20.4517	35.6045	89.759	20.4508	35.5993	90.232
20%	Vnom	47.7181	35.5401	92.532	47.6922	35.4631	92.490	47.7039	35.4782	92.477	47.7325	35.4155	92.587	47.6768	35.5225	92.506
30%	Vnom	65.599	35.6531	93.666	65.6109	35.6488	93.703	65.6226	35.6405	93.712	65.625	35.6589	93.737	65.6125	35.6068	93.686
50%	Vnom	113.777	35.1725	94.506	113.785	35.1741	94.514	113.786	35.1744	94.515	113.783	35.1751	94.512	113.783	35.1759	94.512
75%	Vnom	169.909	34.985	95.049	169.926	34.985	95.059	169.934	34.9841	95.064	169.937	34.9844	95.065	169.934	34.9842	95.064
100%	Vnom	227.467	35.4006	95.024	227.47	35.4006	95.024	227.472	35.4013	95.025	227.466	35.402	95.023	227.466	35.403	95.023
10%	Vmax	20.1429	45.278	88.065	20.1821	45.2505	89.559	20.007	45.338	88.267	20.1355	45.2806	87.109	20.0298	45.3259	88.197
20%	Vmax	43.8201	45.5231	90.513	43.7818	45.5347	90.071	43.7895	45.5426	90.463	43.7638	45.5288	90.172	43.7551	45.5549	90.224
30%	Vmax	66.334	44.9504	92.383	66.243	45.0409	92.324	66.2772	45.0115	92.683	66.2839	45.008	92.543	66.2545	45.0193	92.359
50%	Vmax	113.799	45.2659	93.943	113.777	45.3061	93.928	113.765	45.3362	93.914	113.767	45.3378	93.913	113.754	45.3584	93.909
75%	Vmax	170.586	45.179	94.821	170.586	45.1801	94.822	170.617	45.1455	94.840	170.659	45.047	94.864	170.665	45.0477	94.866
100%	Vmax	227.696	44.8438	95.137	227.703	44.8431	95.139	227.697	44.8446	95.137	227.699	44.8448	95.138	227.694	44.8454	95.136

Specified		Sample #			Sample #			Sample #			Sample #			Sample #		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
% of rated	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															